



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

| | | | | |
|--|----------|---|----------|--------------|
| Date | May 2016 | EPA Reg No./File Symbol | 7969-155 | Page 1 of 12 |
| Applicant's/Registrant's Name & Address: | | BASF Corporation 26 Davis Drive, Research Triangle Park, NC 27709-3528 | | |
| Product: | | s-Dimethenamid (Dimethenamid-P) Technical | | |
| Ingredient (S)-2-chloro-N-(2,4-dimethyl-3-thienyl)-N-(2-methoxy-1-methylethyl)-acetamide CAS#: 163515-14-8 | | | | |

| Guideline Reference No. | Guideline Study Name | MRID Number | Submitter | Status | Note |
|-------------------------|--|--|------------------|--------|------|
| SERIES 830 | PRODUCT PROPERTIES TEST GUIDELINES | | | | |
| | Product Identity, Composition, and Analysis | | | | |
| 830.1550 (61-1) | Product identity and composition | 44332202 | BASF Corporation | Own | |
| 830.1600 (61-2) | Description of materials used to produce the product | 44332202, 41662401, 42238804 42512901 | BASF Corporation | Own | |
| 830.1620 (61-2) | Description of production process | 44332202, 41662401, 42238804 42512901 | BASF Corporation | Own | |
| 830.1670 (61-3) | Discussion of formation of impurities | 44332202, 41662401, 42238804 42512901 | BASF Corporation | Own | |
| 830.1700 (62-1) | Preliminary analysis | 44332204, 45837001, 45837002 | BASF Corporation | Own | |
| 830.1750 (62-2) | Certified limits | 44332204, 45837001, 45837002 | BASF Corporation | Own | |
| 830.1800 (62-3) | Enforcement analytical method | 44332204 | BASF Corporation | Own | |
| | Physical/Chemical Properties Test Guidelines | | | | |
| 830.6302 (63-2) | Color | 44332205 | BASF Corporation | Own | |
| 830.6303 (63-3) | Physical state | 44332207 | BASF Corporation | Own | |
| 830.6304 (63-4) | Odor | 44332209 | BASF Corporation | Own | |

Signature:

Name and Title: Craig D. Kleppe, Product Registration Manager

Date: 5-19-2016



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| 830.6313 (63-13) | Stability to normal & elevated temperatures, metals, and metal ions | 44332218 | BASF Corporation | Own | |
| 830.6314 (63-14) | Oxidation/reduction: chemical incompatibility | 42512910 | BASF Corporation | Own | |
| 830.6315 (63-15) | Flammability | 44332220 | BASF Corporation | Own | |
| 830.6316 (63-16) | Explosibility | 42238801 | BASF Corporation | Own | |
| 830.6317 (63-17) | Storage stability | 44332221 | BASF Corporation | Own | |
| 830.6320 (63-20) | Corrosion characteristics | 42647501 | BASF Corporation | Own | |
| 830.7200 (63-5) | Melting point/melting range | waiver | BASF Corporation | Own | |
| 830.7300 (63-7) | Density/relative density/bulk density | 44332211 | BASF Corporation | Own | |
| 830.7370 (63-10) | Dissociation constants in water | 41596510 | BASF Corporation | Own | |
| 830.7550 (63-11) | Partition coefficient (n-octanol/water), shake flask method | 41596511 | BASF Corporation | Own | |
| 830.7840 (63-8) | Water solubility: column elution method; shake flask method | 44332214 | BASF Corporation | Own | |
| 830.7950 (63-9) | Vapor pressure | 44332215 | BASF Corporation | Own | |
| SERIES 835 | FATE, TRANSPORT, AND TRANSFORMATION TEST GUIDELINES | | | | |
| | Degradation Studies - Lab | | | | |

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| 835.2120 (161-1) | Hydrolysis | 44332258 | BASF Corporation | Own | |
| 835.2210 (161-2) | Aqueous photolysis | 44332259 | BASF Corporation | Own | |
| 835.2410 (161-3) | Soil photolysis | 44332260 | BASF Corporation | Own | |
| | Metabolism Studies - Lab | | | | |
| 835.4100 (162-1) | Aerobic soil – comparative r/s DMTA vs s-DMTA r/s DMTA under BBA soils r/s DMTA under Flaach soil | 44332261 44083204 44083202, 44083203 41596532 | BASF Corporation | Own | |
| 835.4200 (162-2) | Anaerobic soil | 41706801 | BASF Corporation | Own | |
| 835.4300 (162-4) | Aerobic aquatic | waiver | | | |
| | Mobility Studies | | | | |
| 835.1230 (163-1) | Leaching and adsorption/desorption | 44332263, 41596534, 42034807 | BASF Corporation | Own | |
| | Dissipation Studies - Field | | | | |

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| 835.6100 (164-1) | Soil Turf (CA), DMTA Dissipation summary, method validtn Turf (CA, FL, NJ) with granular formulation | 41706802, 41706803, 41706804 41706805, 41706806, 42266202 42266203, 42266204, 42266205 42266206, 41662408, 44083205 44083206, 45788401, 45788403 47258001, 47258002, 47258003 47901301 | BASF Corporation | Own | |
| | SPRAY DRIFT TEST GUIDELINES | | | | |
| 835.1510 (201-1) | Droplet size spectrum | SDTF data | Member of Spray Drift Task Force | Own | |
| 840.4200 (202-1) | Drift field evaluation | SDTF data | Member of Spray Drift Task Force | Own | |
| SERIES 850 | ECOLOGICAL EFFECTS TEST GUIDELINES | | | | |
| | Aquatic Fauna Test Guidelines | | | | |
| 850.1010 (72-2) | Aquatic freshwater invertebrate acute toxicity test Daphnia | 44332229 | BASF Corporation | Own | |
| 850.1025 (72-3 b) 850.1035 (72-3 c) | Acute Toxicity to Estuarine and Marine Organisms eastern oyster (shell deposition);mysid shrimp | 42336602; 44332231 | BASF Corporation | Own | |

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| 850.1075 (72-1a, 72-3a) | Freshwater and Marine Fish acute toxicity test bluegill sunfish; rainbow trout; sheepshead minnow | 44332228; 44332227; 44332230 | BASF Corporation | Own | |
| 850.1300 (72-4) | Aquatic Invertebrate lifecycle - Daphnia chronic toxicity test | 42056601, 42336605, 42034801 42336606, 43914301 | BASF Corporation | Own | |
| 850.1400 (72-4) | Fish early-life stage toxicity test | waiver submitted | | | |
| 850.1730 (72-6) | Fish Bioaccumulation; Fish bioconcentration factor | 41596535; waiver | BASF Corporation | Own | |
| | Terrestrial Wildlife Test Guidelines | | | | |
| 850.2100 (71-1) | Avian acute oral toxicity tests: northern bobwhite quail | 44332224 | BASF Corporation | Own | |
| 850.2200 (71-2) | Avian dietary toxicity test northern bobwhite quail; mallard duck, canary | 44332226; 44332225, 49506001 | BASF Corporation | Own | |
| 850.2300 (71-4) | Avian reproduction test northern bobwhite quail; mallard duck | 43925801; 43925802 | BASF Corporation | Own | |
| | Beneficial Insects and Invertebrates Test Guidelines | | | | |
| 850.3020 (141-1) | Honey bee acute contact toxicity test | 41662418, 41742801 | BASF Corporation | Own | |
| | Non-target Plants Test Guidelines | | | | |
| 850.4100 (122-1(a)) | Terrestrial plant toxicity, Tier I (seedling emergence) | see Tier II data | | | |

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| 850.4150 (122-1(b)) | Terrestrial plant toxicity, Tier I (vegetative vigor) | see Tier II data | | | |
| 850.4225 (123-1(a)) | Seed Germination and Seedling Emergence Tier II | 44332252 | BASF Corporation | Own | |
| 850.4250 (123-1(b)) | Vegetative Vigor Tier II | 44332252 | BASF Corporation | Own | |
| 850.4400 (122-2, 123-2) | Aquatic plant toxicity test using <i>Lemna</i> , Tiers I and II | 44332257 | BASF Corporation | Own | |
| | Toxicity to Microorganisms Test Guidelines | | | | |
| 850.5400 (122-2, 123-2) | Algal toxicity, Tiers I and II algae inhibition test – Scenedemus freshwater green algae freshwater diatom freshwater blue-green algae marine diatom | 41662417 44332253 44332254 44332255 44332256 | BASF Corporation | Own | |
| SERIES 860 | RESIDUE CHEMISTRY TEST GUIDELINES | | | | |
| 860.1300 (171-4(a)) | Nature of residues in plants: plant metabolism – corn plant metabolism – soybean plant metabolism – sugar beet | 41596554, 42289504, 42516001 41843801, 42571601, 42842501 45189703 | BASF Corporation | Own | |

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| 860.1300 (171-4(b)) | Nature of residues in livestock – ruminants (goat) Nature of residues in livestock – poultry (hen) | 41596555, 42289502, 42439502 42516002, 41662419 41596556, 42289503 | BASF Corporation | Own | |
| 860.1340 (171-4(c)) | Residue analytical method – plants method – soybean parent + metabolites – method trial parent + metabolites – method validation parent – method ILV parent + metabolites method L0179/02 validation | 41596557 41843803, 41843804 42336801 41662421 41823902 49184301 | BASF Corporation | Own | |
| 860.1360 (171-4(c)) | Multi-residue method - corn | 41707901, 41707902 | BASF Corporation | Own | |
| 860.1340 (171-4(d)) | Residue analytical method - animals | waiver | | | |
| 860.1380 (171-4(e)) | Storage stability of residue data: corn Soybean Storage Stability parent + M23, M26, M27, M30 | 41662420, 42289508 42543601 49184302 | BASF Corporation | Own | |
| 860.1400 (171-4(f,g,h)) | Magnitude of residues: potable water, fish, irrigated crops | waiver | | | |
| 860.1480 (171-4(j)) | Magnitude of Residues: Meat/milk/poultry/eggs | waiver | | | |

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| 860.1500 (171-4(k)) | Magnitude of residues: Crop field trials – corn sweet corn | 41596557, 41706811, 42289505 42289506, 42310301, 42516003 43708402 | BASF Corporation | Own | |
| 860.1500 (171-4(k)) | Magnitude of residues: Crop field trials – sorghum | 43708401 | BASF Corporation | Own | |
| 860.1500 (171-4(k)) | Magnitude of residues: Crop field trials – soybean | 41843803, 41843804, 42632801 42606501, 42990402, 42990401 43315401 | BASF Corporation | Own | |
| 860.1500 (171-4(k)) | Magnitude of residues: Crop field trials – peanut | 43708403 | BASF Corporation | Own | |
| 860.1500 (171-4(k)) | Magnitude of residues: Crop field trials – dry beans | 43719301 | BASF Corporation | Own | |
| 860.1500 (171-4(k)) | Magnitude of residues: Crop field trials – sugar beet | 45189702, 46422301 | BASF Corporation | Own | |
| 860.1500 (171-4(k)) | Magnitude of residues: Crop field trials – potato | 45189701 | BASF Corporation | Own | |
| 860.1500 (171-4(k)) | Magnitude of residues: Crop field trials – dry bulb onion | 45175061 | BASF Corporation | Own | |
| 860.1500 (171-4(k)) | Magnitude of residues: Crop field trials – green onion | 46287301 | BASF Corporation | Own | |
| 860.1500 (171-4(k)) | Magnitude of residues: Crop field trials – grass grown for seed | 45098901 45649401 | BASF Corporation | Own | |
| 860.1500 (171-4(k)) | Magnitude of residues: Crop field trials – turnip roots & tops | 47005001 | BASF Corporation | Own | |

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| 860.1500 (171-4(k)) | Magnitude of residues: Crop field trials – radish (roots & tops) | 47005002 | BASF Corporation | Own | |
| 860.1500 (171-4(k)) | Magnitude of residues: Crop field trials – winter squash | 47005003 | BASF Corporation | Own | |
| 860.1500 (171-4(k)) | Magnitude of residues: Crop field trials – hops | 47005004 | BASF Corporation | Own | |
| 860.1500 (171-4(k)) | Magnitude of residues: Crop field trials – cotton | 49184303 | BASF Corporation | Own | |
| 860.1520 (171-4(l)) | Magnitude of residue: Processed food/feed – corn | 41706812, 42289507 | BASF Corporation | Own | |
| 860.1520 (171-4(l)) | Magnitude of residue: Processed food/feed – soybean | 41843802, 42571602, 42789501 | BASF Corporation | Own | |
| 860.1520 (171-4(l)) | Magnitude of residue: Processed food/feed – peanut | 43708404 | BASF Corporation | Own | |
| 860.1520 (171-4(l)) | Magnitude of residue: Processed food/feed – potato | 45189701 | BASF Corporation | Own | |
| 860.1520 (171-4(l)) | Magnitude of residue: Processed food/feed – sugar beet | 45189702 | BASF Corporation | Own | |
| 860.1520 (171-4(l)) | Magnitude of residue: Processed food/feed – cotton | 49184303 | BASF Corporation | Own | |
| 860.1850 (165-1) | Confined accumulation in rotational crops | 42380501, 49827801 | BASF Corporation | Own | |
| 860.1900 (165-2) | Field accumulation in rotational crops | waiver | | | |
| SERIES 870 | HEALTH EFFECTS TEST GUIDELINES | | | | |
| | Acute Testing | | | | |
| 870.1100 (81-1) | Acute oral toxicity - Rat | 44097603 | BASF Corporation | Own | |

Signature:

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| 870.1100 (81-1) | Acute oral toxicity – Metabolites Oxalamide (M23), Sulfonate (M27) | 44083201, 42516006 | BASF Corporation | Own | |
| 870.1200 (81-2) | Acute dermal toxicity | 44332234 | BASF Corporation | Own | |
| 870.1300 (81-3) | Acute inhalation toxicity | 44332235 | BASF Corporation | Own | |
| 870.2400 (81-4) | Primary eye irritation | 44332238 | BASF Corporation | Own | |
| 870.2500 (81-5) | Primary dermal irritation | 44332239 | BASF Corporation | Own | |
| 870.2600 (81-6) | Dermal sensitization | 44097604 | BASF Corporation | Own | |
| | Sub-chronic Testing | | | | |
| 870.3100 (82-1(a)) | 90-day feeding study rodent (rat) | 44332242, 44429701 | BASF Corporation | Own | |
| 870.3150 (82-1(b)) | 90-day feeding study non-rodent (dog) | 41615902 | BASF Corporation | Own | |
| 870.3200 (82-2) | 21-day dermal | 41662414 | BASF Corporation | Own | |
| | Developmental / Reproduction Studies | | | | |
| 870.3700 (83-3(a)) | Developmental toxicity rodent study (rat) | 44332243 | BASF Corporation | Own | |
| 870.3700 (83-3(b)) | Developmental toxicity non-rodent study (rabbit) | 41706809 | BASF Corporation | Own | |
| 870.3800 (83-4) | Reproduction, 2-generation - rat | 41615905, 41706810 | BASF Corporation | Own | |
| | Chronic Testing | | | | |

Signature:

Name and Title: Craig D. Kleppe, Product Registration Manager

Date: 5-19-2016



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460


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DATA MATRIX

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|--|----------|---|----------|---------------|
| Date | May 2016 | EPA Reg No./File Symbol | 7969-155 | Page 11 of 12 |
| Applicant's/Registrant's Name & Address: | | BASF Corporation 26 Davis Drive, Research Triangle Park, NC 27709-3528 | | |
| Product: | | s-Dimethenamid (Dimethenamid-P) Technical | | |
| Ingredient (S)-2-chloro-N-(2,4-dimethyl-3-thienyl)-N-(2-methoxy-1-methylethyl)-acetamide CAS#: 163515-14-8 | | | | |

| Guideline Reference No. | Guideline Study Name | MRID Number | Submitter | Status | Note |
|-------------------------|---|--|------------------|--------|------|
| 870.4100 (83-1(a)) | Chronic toxicity feeding study - rat | 41706808 | BASF Corporation | Own | |
| 870.4100 (83-1(b)) | Chronic toxicity feeding study - dog | 41615903 | BASF Corporation | Own | |
| 870.4200 (83-2(a)) | Oncogenicity study in rat | 41706808, 42030102, 42774501 | BASF Corporation | Own | |
| 870.4200 (83-2(b)) | Oncogenicity study in mouse | 41662415 | BASF Corporation | Own | |
| | Mutagenicity Testing | | | | |
| 870.5100 (84-2) | Bacterial reverse mutation assay | 44123502, 44332250, 44332246 | BASF Corporation | Own | |
| 870.5375 (84-2) | <u>In vitro</u> mammalian cytogenetics (cell gene mutation) | 44123501, 44332248, 44332245 44332244 | BASF Corporation | Own | |
| 870.5375 (84-2) | <u>In vitro</u> mammalian cytogenetics (chromosome aberration) | 44332227 | BASF Corporation | Own | |
| 870.5395 (84-2) | <u>In vivo</u> mammalian cytogenetics test: erythrocyte micronucleus test | 44332249 | BASF Corporation | Own | |
| 870.5550 (84-2) | Unscheduled DNA synthesis in mammalian cells | 44332251 | BASF Corporation | Own | |
| | Neurotoxicity Testing | | | | |
| 870.6200 (81-8) | Neurotoxicity Screening Battery - acute | 49184304, 49442901, 49442902 | BASF Corporation | Own | |
| 870.6200 (81-8) | Neurotoxicity Screening Battery – subchronic | 49184305 | BASF Corporation | Own | |
| | Special Testing | | | | |

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|--|---|-----------------|
| Signature:  | Name and Title: Craig D. Kleppe, Product Registration Manager | Date: 5-19-2016 |
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| Date | May 2016 | EPA Reg No./File Symbol | 7969-155 | Page 12 of 12 |
| Applicant's/Registrant's Name & Address: | | BASF Corporation 26 Davis Drive, Research Triangle Park, NC 27709-3528 | | |
| Product: | | s-Dimethenamid (Dimethenamid-P) Technical | | |
| Ingredient (S)-2-chloro-N-(2,4-dimethyl-3-thienyl)-N-(2-methoxy-1-methylethyl)-acetamide CAS#: 163515-14-8 | | | | |

| Guideline Reference No. | Guideline Study Name | MRID Number | Submitter | Status | Note |
|-------------------------|--|------------------------------|------------------|--------|------|
| 870.7485 (85-1) | General metabolism - rat | 41596545, 42289501, 42439501 | BASF Corporation | Own | |
| 870.7485 (85-1) | General metabolism - goat | 42516005, 42516004, 42571603 | BASF Corporation | Own | |
| 870.7500 (85-3) | Dermal penetration | | | | |
| 870.7800 | Immunotoxicity | 49184307 | BASF Corporation | Own | |
| SERIES 875 | OCCUPATIONAL AND RESIDENTIAL EXPOSURE TEST GUIDELINES | | | | |
| 875.2100 (132-1) | Post-Application Exposure, Transferable Residue Dissipation: Lawn and Turf | 47901302 | BASF Corporation | Own | |
| 875.supplemental | Residential, Golfer and Re-Entry Worker Exposure Assessment: BAS 656 08 H and BAS 659 04 H | 47901303 | BASF Corporation | Own | |
| | Non-Guideline | | | | |
| | Reduced Risk Rationale for s-Dimethenamid | 44332265 | BASF Corporation | Own | |
| | Comparison of liver toxicity observed with s-Dimethenamid and racemic Dimethenamid | 44429701 | BASF Corporation | Own | |

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|--|---|-----------------|
| Signature:  | Name and Title: Craig D. Kleppe, Product Registration Manager | Date: 5-19-2016 |
|--|---|-----------------|